**QR Challenge:  
Mathematician**

**QR Codes for Teachers: Use the 'instructions' code to start the lesson. Place the 'Quiz Questions' around the school.**

Note: each of the QR codes is a text file. There is no need for the mobile devices to connect to the internet to decode them.

**The correct answers for this quiz can be found** [**here**](http://www.classtools.net/QR/questions_list.php?fold=46&fname=SBLTS&stage=&diff=0)**.**



**Instructions**  
Mathematician Your job is to find the QR codes which your teacher has put on display around the area. Scan each QR code into your mobile device to get important information and/or a challenge question. Record the correct answers and information to all of the \*13\* questions/clues. The winner is the Team of students with the highest average on the quiz at the end of the activities. Good luck!

http://www.classtools.net/classtools_premium/logo_mini.gif

**Mathematician: QR Challenge**



**Question 1 (of 13)**

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**Question 2 (of 13)**

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**Question 3 (of 13)**

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**Question 4 (of 13)**

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**Question 5 (of 13)**

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**Question 6 (of 13)**

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**Question 7 (of 13)**

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**Question 8 (of 13)**

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**Question 9 (of 13)**

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**Question 10 (of 13)**

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**Question 11 (of 13)**

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**Question 12 (of 13)**

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**Question 13 (of 13)**

Info put into Classtools to generate the QR codes for the Scavenger Hunt

Link to the file on Class tools: <http://goo.gl/YLOI94>

This person was born in Sicily in a town with the same name as the 5th most populous city in New York state. \*Syracuse

This person studied hydrostatics, static mechanics, pycnometry (the measurement of the volume or density of an object). \*.

This person probably studied in Alexandria, Egypt, under the followers of Euclid. He is credited with making a compound pulley system. \*.

This person’s father was an astronomer and he was probably related to Hieron II, the king of Syracuse. What is his father's name? \*Phidias

This person was born in y BC where y = -3 + 9 x 10^2 x 1 / 3 – 15 + 25 / 5. \*287 BC

It is on record that this person, while intent upon figures which he had traced in the dust, was killed by a soldier who did not receive an answer when asked his name because he was so intent on his drawn figures. \*.

This person made an Ancient invention called the “claw”. \*.

Some stories credit this person with burning a whole fleet of Roman ships that were attacking his city using mirrors and sunlight. \*However, this is not very probable.

Roman slaves draw out the water of the streams they encounter in Spanish mines by means of what is called by men the Egyptian screw, which was invented by this person. \*Archimedes' Screw

This person was known as the father of \_\_\_\_?\_\_\_\_\_ calculus and the father of mathematical \_\_\_\_?\_\_\_\_\_. \*Integral Calculus and Mathematical Physics

The “Collection” of the Greek mathematician Pappus of Alexandria, who lived in the beginning of the fourth century A.D. gives the first known mention of this person’s 13 “solids”, which Pappus lists and attributes to this person. However, this person makes no mention of these solids in any of his extensive works. \*13 Archimedean Solids

In the first century BC the Roman architect Vitruvius related a story of how this person uncovered a fraud in the manufacture of a golden crown commissioned by Hiero II, the king of Syracuse. Hiero suspected that the goldsmith might have replaced some of the gold given to him by an equal weight of silver. This person used the idea of displacement to prove that fraud had indeed taken place. \*water displacement

This person is credited with discovering his Law of Buoyancy and his Law of the Lever. \*.

**QUIZ and Answers**

1. In what year was this person born?

2. This person is known as the Father of what 2 things?

3. Where was this person born?

4. This person is credited with which of the following? (choose all that apply)

a. Law of Buoyancy

b. Wind-powered organ

c. Egyptian screw

d. Destroying a fleet of Roman Ships

e. A system of compound levers

5. How many solids are in the special group he discovered are named after this person?

6. Name this mathematician.

